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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/524,276	02/11/2005	Gabriel Ilan	28686	9993
7590 Martin Moynihan Anthony Castorina Suite 207 2001 Jefferson Davis Highway Arlington, VA 22202			EXAMINER NATNAEL, PAULO S M	
			ART UNIT 2622	PAPER NUMBER
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE	
3 MONTHS		04/20/2007	PAPER	

**Please find below and/or attached an Office communication concerning this application or proceeding.**

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/524,276	<b>Applicant(s)</b> ILAN ET AL.	
	<b>Examiner</b> Paulos M. Natnael	<b>Art Unit</b> 2622	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 25 January 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 24-26, 29-45 and 47-73 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 35-45 and 47-73 is/are allowed.
- 6) ☒ Claim(s) 24-26 and 29-32 is/are rejected.
- 7) ☒ Claim(s) 33, 34 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

### DETAILED ACTION

1. The amendment received January 25, 2007 cancels claims 71-73 (see Remarks, page 9) And yet, the same amendment also amended claim 71 to depend from claim 43 (See Claims, page 7 and 8) and left all claims (71-73) in the application (see pages 7-8). Claim 71 was rejected in the previous office action; since claim 71 now depends from claim 43, and claim 72 and 73 depend from claim 71, and thus claims 71-73 it would be allowable. Applicant is required to clarify the status of the claims.

### *Claim Rejections - 35 USC § 102*

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims **24-26, 29-32** rejected under 35 U.S.C. 102(b) as being anticipated by Ciardullo et al., U.S. Patent No. 6,094,228.

Considering claim **24**, Ciardullo et al. (hereinafter, "Ciardullo") discloses a method of encoding data in the visible portion of a transmitted video signal without degrading

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display of the received video signal, and for decoding the data in the received video signal. Each group of data bits to be transmitted, referred to a data symbol, is associated with one of a number of longer predetermined sequences of chips. Each chip sequence is divided into a multiplicity of lines of chips, and each line of chips together with its inverse are embedded, in pairwise fashion, in respective pairs of line scans of the video signal prior to its transmission. Received pairs of line scans are operated upon to detect the lines of chips they represent, and each of the number of chip sequences is correlated with the detected line of chips to derive a correlation magnitude. The chip sequence with the largest correlation magnitude is selected as the chip sequence whose data symbol was transmitted. (See Abstract of disclosure).

Ciardullo further discloses that the video signal with the superimposed data can be detected optically, as in the above-identified Broughton et al. patent, or it can be detected electrically by operating on the video signal directly. col.16, line 58+.

Furthermore, on Fig.3 Ciardullo discloses an apparatus for encoding of a video signal.

As illustrated in Fig.5, the system of Ciardullo discloses a decoder. Thus, Ciardullo discloses all claimed subject matter. As to the claimed "said blending comprises invisibly blending such that said data for optical detection is substantially invisible to a user", as the applicant admitted Ciardullo discloses invisibly embedding data on the visible portion of a video signal. (See, page 1, specification) Invisibly encoding or embedding data was known from the patent of Broughton as discussed by Ciardullo. Thus, Ciardullo discloses all claimed subject matter.

Considering claims **25-26**, Ciardullo discloses the encoder Fig.3 which encoder determines where in the viewable portion of the video signal to encode the signal.

Considering claims **29-31**, any viewable portion of the video signal on the screen would inherently be rectangular.

Considering claims **32**, Ciardullo discloses color modulation. See, Col. 17, lines 39+.

#### ***Allowable Subject Matter***

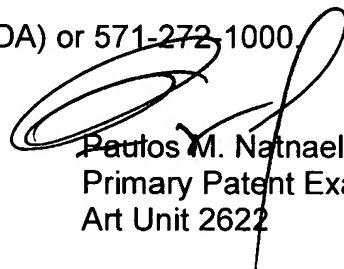
4. Claims **35-45** and **47-73** are allowed.
5. Claims **33-34** are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

#### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paulos M. Natnael whose telephone number is (571) 272-7354. The examiner can normally be reached on 8AM-4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Ometz can be reached on (571)272-7593. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Paulos M. Natnael  
Primary Patent Examiner  
Art Unit 2622

April 14, 2007